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Appl. No.:	09/745,290	Confirmation No.: 6981
Applicant(s):	Adam L. Berger	
Filed:	December 20, 2000	
Art Unit:	2176	
Examiner:	Smith, Peter J.	
Title:	CONFIGURABLE TRANSFORMATION OF ELECTRONIC DOCUMENTS	

Docket No.: 042933/274311
Customer No.: 00826

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APPEAL BRIEF TRANSMITTAL
(PATENT APPLICATION – 37 C.F.R. § 41.37)

1. Transmitted herewith is the APPEAL BRIEF in this application, with respect to the Notice of Appeal filed on June 30, 2006.

2. ☐ Applicant claims small entity status.

3. Pursuant to 37 C.F.R. § 41.20(b)(2), the fee for filing the Appeal Brief is:
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Attorney's Docket No. 042933/274311 PATENT

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APPEAL BRIEF UNDER 37 CFR § 41.37

This Appeal Brief is filed pursuant to the Notice of Appeal filed June 30, 2006.

1. ***Real Party in Interest.***

The real party in interest in this appeal is Nokia Inc., the assignee of the above-referenced patent application.

2. ***Related Appeals and Interferences.***

There are no related appeals and/or interferences involving this application or its subject matter.

3. ***Status of Claims.***

The present application currently includes Claims 1-40, 42-50 and 52-54, which all stand rejected.

4. ***Status of Amendments.***

There are no unentered amendments in this application.

5. ***Summary of Claimed Subject Matter.***

The claimed invention provides for a network entity, a computer program product, and methods directed to segmenting, transforming and/or viewing electronic documents on devices with limited capabilities. As recited in independent claim 1, a method is provided in which portions of a text of an original version of a digital document are altered to produce a revised version of the digital document in which the text is shorter than the text of the original document (page 2, lines 12-15). The alteration includes segmenting the digital document into subdocuments (page 3, lines 21-23). The alteration is done based on a set of at least one preference (page 2, line 24 to page 3, line 1). The set of at least one preference is associated with a device and independent of an association with the digital document (page 3, lines 1-3). The method includes receiving a request for the digital document from the device via a communications channel (page 2, lines 15-16). The subdocuments of the revised version are then transmitted over the communication channel in response to the request (page 2, lines 17-18). As further recited in independent claim 1, at least one of the transmitted subdocuments includes a link to an adjacent subdocument (page 28, lines 13-18).

Independent claim 26 recites another method in which a database (element 26 of FIG. 1) that defines a plurality of sets of at least one preference is maintained (page 3, lines 4-5). The sets of at least one preference are associated with different client devices and are independent of an association with a web page (page 3, lines 1-3). The sets of at least one preference define preferred alterations to be performed on full web pages requested by respective client devices that are not configured to display full web pages (page 3, line 25 to page 4, line 3). The alterations make the documents more suitable for display on the respective client devices (page 4, lines 3-4). The alterations include segmenting a full webpage into subdocuments for transmitting fewer than all of the subdocuments in response to client device requests (page 3, lines 21-24) in which at least one of the transmitted subdocuments includes a link to an adjacent subdocument (page 28, lines 13-18).

Independent claim 27 recites another method in which a set of at least one preference with respect to preferred alterations to be performed on full documents requested by a client device that is not configured to display the full documents is obtained from the client device (page 4, lines 5-9). The set of preferences are associated with the client device in a database

(page 4, lines 9-10). The set of at least one preference is associated with the client device independent of an association with a document (page 3, lines 1-3). The alterations include segmenting a full document into subdocuments for transmitting fewer than all of the subdocuments in response to client device requests (page 3, lines 21-24). Additionally, at least one of the transmitted subdocuments includes a link to an adjacent subdocument (page 28, lines 13-18).

Independent claim 28 recites another method in which content for web pages to be served to types of client devices that are not configured to display full web pages is created (page 4, lines 11-13). A plurality of sets of at least one preference defining at least one transformation that is to be made to the full web pages is stored to make them suitable for display on the client devices (page 4, lines 14-16). The stored sets of preferences are each associated with a respective device independent of an association with a web page (page 4, lines 16-18). The stored sets of preferences define at least one transformation to be made to full web pages requested by that respective device (page 15, lines 4-7). The at least one transformation includes segmenting a full web page into subdocuments for transmitting fewer than all of the subdocuments in response to requests from the client devices (page 3, lines 21-24). Additionally, at least one of the transmitted subdocuments includes a link to an adjacent subdocument (page 28, lines 13-18).

A network entity is claimed in independent claim 33 in which the network entity includes a processor (element 14 of FIG. 1). The processor is capable of receiving a set of at least one preference for altering digital documents to be displayed by a device (page 15, lines 4-7). The set of at least one preference is associated with the device and independent of an association with a digital document (page 3, lines 1-3). The processor is capable of altering at least a portion of an original version of a digital document based upon the set of at least one preference in order to thereby produce a revised version of the digital document (page 15, lines 8-10). The processor is capable of producing the revised version of the digital document such that the device is capable of displaying the revised version (page 15, lines 8-10). Altering at least a portion of the original version of the digital document includes segmenting the digital document into a plurality of subdocuments (page 13, lines 17-20). At least one of the subdocuments transmitted to the device

includes a link to an adjacent subdocument and the revised version of the digital document includes the subdocuments (page 28, lines 13-18).

A computer program product is claimed in independent claim 43 which includes at least one computer-readable storage medium having computer-readable program code portions stored therein. The computer-readable program code portions include first, second and third executable portions. The first executable portion is for receiving a set of at least one preference for altering digital documents to be displayed by a device (page 15, lines 4-7). The set of at least one preference is associated with the device and independent of an association with a digital document (page 3, lines 1-3). The second executable portion is for altering at least a portion of an original version of a digital document based upon the set of at least one preference to thereby produce a revised version of the digital document (page 15, lines 8-10). The second executable portion is adapted to produce the revised version of the digital document such that the device is capable of displaying the revised version (page 15, lines 8-10). The second executable portion is adapted to alter at least a portion of the original version of the digital document including segmenting the digital document into a plurality of subdocuments in which the revised version of the digital document includes the subdocuments (page 13, lines 17-20). The third executable portion is for transmitting a portion of the subdocuments in which the at least one of the portion of subdocuments transmitted by the third executable portion to the device includes a link to an adjacent subdocument (page 28, lines 13-18).

6. ***Grounds of Rejection to be Reviewed on Appeal.***

Claims 1-40, 42-50 and 52-54 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Tso et al. (U.S. Patent No. 6,421,733, hereinafter "Tso") in view of Tsimelzon (U.S. Patent No. 6,763,388).

7. ***Argument.***

The claimed invention, as recited by independent claims 1, 26-28, 33 and 43, provides for a network entity, a computer program product, and methods directed to segmenting, transforming and/or viewing a digital document in which, *inter alia*, the digital document is segmented into subdocuments and at least one of the transmitted subdocuments includes a link to

an adjacent subdocument. Thus, for example, a link in a particular subdocument may permit navigation among adjacent subdocuments to improve user interaction with web pages viewed using devices of limited capabilities.

A. Brief Summary of Argument

As a brief summary, Applicants respectfully submit that the cited references do not teach or suggest the claims of the present application. Applicants submit that, in particular, both Tso and Tsimelzon fail, individually and in combination, to teach or suggest that the digital document is segmented into subdocuments and at least one of the transmitted subdocuments includes a link to an adjacent subdocument as recited by the claimed invention.

B. Claims 1-40, 42-50 and 52-54 are patentable over the cited references

Independent claim 1 recites, *inter alia*, segmenting the digital document into subdocuments, and transmitting fewer than all of the subdocuments over the communication channel in response to the request, **wherein at least one of the subdocuments transmitted includes a link to an adjacent subdocument**. In other words, a full document is segmented into multiple subdocuments, **at least one of which contains a link to an adjacent subdocument**.

Tso discloses a system for dynamically transcoding data transmitted between computers via a transcoder (20) (col. 2, lines 44-49). The transcoder (20) includes a parser (22) and a plurality of transcode service providers (24) (col. 3, lines 8-10). The parser (22) selectively invokes one or more transcode service providers (24) based upon predetermined selection criterion (col. 3, lines 13-16). As such, the transcode service providers (24) may compress or scale data content (col. 3, lines 51-54). Thus, the transcoder (20) of Tso transcodes entire documents such that a received document is revised and transmitted as an entire revised document. Therefore, Tso fails to teach or suggest that at least one of the subdocuments transmitted includes a link to an adjacent subdocument as claimed in independent claim 1. Applicants also respectfully note that Tso is not cited as teaching the above recited feature of independent claim 1.

In order to cure the admitted deficiency of Tso, the Office Action cites Tsimelzon as teaching the above recited feature of independent claim 1. Tsimelzon is directed to a method and apparatus for selecting and viewing portions of web pages. Tsimelzon discloses "web clipping" in which a link to the user's startpage is created and downloaded into the user's handheld device (col. 10, lines 47-49). Using the web clipping function, a user may select a link from the startpage to a shortpage to permit the user to access a stored shortpage from the startpage. Tsimelzon discloses additional links as well. For example, a link to the startpage page (col. 9, line 17), a link to a notification page (col. 9, line 18), a link to a help page (col. 9, line 18), a link to edit a shortpage (col. 9, line 19), and a link to a full page upon which the shortpage is based (col. 9, lines 20-21). However, none of the links disclosed in Tsimelzon is a link in a subdocument to an **adjacent subdocument** as claimed in independent claim 1. In this regard, Applicants respectfully note that, in fact, Tsimelzon fails to teach any link to a subdocument since Tsimelzon discloses that a shortpage is a collection of webpage elements and thus, not analogous to a subdocument.

The final Office Action cites FIG. 9, FIG, 13, col. 2, lines 5-24 and 45-65, col. 8, line 55 to col. 9, line 5, and col. 10, line 37 to col. 11, line 20 of Tsimelzon as teaching at least one of the subdocuments transmitted includes a link to an adjacent subdocument. Despite a careful reading of the cited passages, Applicants submit that the cited passages, and indeed all of Tsimelzon, lack any disclosure that would amount to a teaching or suggestion that at least one of the subdocuments transmitted includes a link to an adjacent subdocument as claimed in independent claim 1. The final Office Action also asserted, in response to Applicants' previous arguments, that such feature is particularly taught in FIGS 4 and 13 and at col. 9, line 41 to col. 10, line 14. However, neither FIG. 4 nor FIG. 13 contains any disclosure regarding links to subdocuments, much less a link to an adjacent subdocument as claimed in the claimed invention. Meanwhile, col. 9, line 41 to col. 10, line 14 of Tsimelzon only discloses that if a web page includes a link to another web page, "server **120** will check the link to determine whether it is a shortpage" (col. 10, lines 11-14). Thus, even assuming for the sake of argument that a shortpage of Tsimelzon is analogous to a subdocument of the claimed invention (an assumption with which Applicants expressly disagree), Tsimelzon still fails to teach or suggest any link from one shortpage to an adjacent shortpage (i.e. a subdocument containing a link to an adjacent subdocument). Instead,

the cited passage discloses that a link in a page will be checked to determine if the link is a link to a shortpage. As such, even the links disclosed in Tsimelzon are at best links from a full document to (i.e., a web page) to a shortpage and not a link in one subdocument to an adjacent subdocument. Thus, Applicants submit that the entirety of Tsimelzon, in general, and the cited passages of Tzimelson, in particular, fail to teach or suggest at least one of the subdocuments transmitted includes a link to an adjacent subdocument as claimed in independent claim 1.

Since Tso and Tsimelzon each fail to teach or suggest the aforementioned features of independent claim 1, any combination of Tso and Tsimelzon also fails to teach or suggest the subject matter of independent claim 1. Thus, Tso and Tsimelzon, taken either individually or in combination, do not anticipate, or render independent claim 1 obvious. Independent claims 26, 27, 28, 33 and 43 include similar recitations to those of independent claim 1 with respect to subdocuments and associated links to adjacent subdocuments. Thus, independent claims 26, 27, 28, 33 and 43 are patentable for at least those reasons given above for independent claim 1.

C. Conclusion

Since none of the cited references alone teach or suggest at least one of the subdocuments transmitted includes a link to an adjacent subdocument as claimed in independent claims 1, 26, 27, 28, 33 and 43, the cited references, either individually or in combination, fail to render independent claims 1, 26, 27, 28, 33 and 43 obvious for at least the same reasons described above. Claims 2-25, 29-32, 34-40, 42, 44-50 and 52-54 depend either directly or indirectly from corresponding ones of independent claims 1, 26, 27, 28, 33 and 43, and thus include all the recitations of their corresponding independent claims. Therefore, dependent claims 2-25, 29-32, 34-40, 42, 44-50 and 52-54 are patentable for at least the reasons given above for independent claims 1, 26, 27, 28, 33 and 43.

Accordingly, for all the reasons stated above, Applicants respectfully request that the rejections of claims 1-40, 42-50 and 52-54 be reversed.

8. ***Claims Appendix.***

The claims currently on appeal are as follows:

1. (Previously Presented) A method comprising:

altering portions of a text of an original version of a digital document to produce a revised version of the digital document in which the text is shorter than the text of the original document, the altering including segmenting the digital document into subdocuments, the altering being done based on a set of at least one preference, the set of at least one preference being associated with a device and independent of an association with the digital document,

receiving over a communication channel a request for the digital document from the device, and

transmitting the subdocuments of the revised version over the communication channel in response to the request,

wherein at least one of the transmitted subdocuments includes a link to an adjacent subdocument.

2. (Original) The method of Claim 1 in which altering portions of the text includes applying more than one transformation selectively to the text.

3. (Original) The method of Claim 1 also including selecting transformations to be applied to the text as part of the altering step, based on preferences associated with the device.

4. (Original) The method of Claim 3 in which the preferences are associated with the device based on a unique identifier of the device.

5. (Original) The method of Claim 3 in which the preferences are stored in advance of the request for a document.

6. (Original) The method of Claim 3 in which the preferences are stored in a database associated with a server.

7. (Original) The method of Claim 3 in which the preferences are indicated by the user through the interface of the device.

8. (Original) The method of Claim 3 in which the preferences are indicated by the user through the interface of a device other than the device from which the request for the digital document is made.

9. (Original) The method of Claim 3 in which the preferences are indicated on a form provided from a server.

10. (Original) The method of Claim 3 in which preferences are stored for each device from which requests for documents may be received.

11. (Original) The method of Claim 3 in which preferences are stored for each type of device from which requests for documents may be received.

12. (Original) The method of Claim 3 in which the preferences are stored on the device.

13. (Original) The method of Claim 3 in which the preferences are stored on the device using a cookie mechanism.

14. (Original) The method of Claim 1 in which the altering depends on the type of the device.

15. (Original) The method of Claim 14 also including receiving information from the device identifying the type of device.

16. (Original) The method of Claim 1 in which the altering is performed at a proxy server.

17. (Original) The method of Claim 1 in which the altering is performed at an origin server.

18. (Original) The method of Claim 1 in which the device comprises a device that is not configured to display the entire document at one time.

19. (Original) The method of Claim 18 in which the device comprises a personal digital assistance, a hand-held device, or a telephone.

20. (Original) The method of Claim 1 in which the altering comprises date compression.

21. (Original) The method of Claim 1 in which the altering comprises word abbreviation.

22. (Original) The method of Claim 1 in which the altering comprises reducing the size of an image included in the original document.

23. (Original) The method of Claim 22 in which the reducing includes image compression, resampling, or conversion from color to black and-white.

24. (Original) The method of Claim 1 in which the digital document comprises a web page.

25. (Previously Presented) The method of Claim 1 also including transmitting fewer than all of the subdocuments in response to the request.

26. (Previously Presented) A method comprising:

maintaining a database that defines a plurality of sets of at least one preference, wherein the sets of at least one preference are associated with different client devices and are independent of an association with a web page, wherein the sets of at least one preference define preferred alterations to be performed on full web pages requested by respective client devices that are not configured to display full web pages, the alterations making the documents more suitable for display on the respective client devices, and

wherein the alterations include segmenting a full webpage into subdocuments for transmitting fewer than all of the subdocuments in response to client device requests, at least one of the transmitted subdocuments including a link to an adjacent subdocument.

27. (Previously Presented) A method comprising:

obtaining from a client device a set of at least one preference with respect to preferred alterations to be performed on full documents requested by the client device that is not configured to display the full documents, and

associating the set of preferences with the client device in a database, the set being associated with the client device independent of an association with a document,

wherein the alterations include segmenting a full document into subdocuments for transmitting fewer than all of the subdocuments in response to client device requests, at least one of the transmitted subdocuments including a link to an adjacent subdocument.

28. (Previously Presented) A method comprising:

creating content for web pages to be served to types of client devices that are not configured to display full web pages, and

storing a plurality of sets of at least one preference defining at least one transformation that is to be made to the full web pages to make them suitable for display on the client devices, the stored sets of preferences each being associated with a respective device independent of an association with a web page, and defining at least one transformation to be made to full web pages requested by that respective device,

wherein the at least one transformation includes segmenting a full web page into subdocuments for transmitting fewer than all of the subdocuments in response to requests from the client devices, at least one of the transmitted subdocuments including a link to an adjacent subdocument.

29. (Previously Presented) The method of claim 1 in which the digital document comprises an e-mail.

30. (Previously Presented) The method of claim 1 in which altering portions of a text comprises altering portions of a text based on preferences associated with a device and independent of an association with the digital document.

31. (Previously Presented) The method of claim 1 in which altering portions of a text comprises altering portions of a text based on preferences related to at least one capability of the device.

32. (Previously Presented) The method of claim 1 in which altering portions of a text comprises altering portions of a text based on preferences related to at least one capability of the device, and independent of a relation to an ability of a user of the device.

33. (Previously Presented) A network entity comprising:

a processor capable of receiving a set of at least one preference for altering digital documents to be displayed by a device, wherein the set of at least one preference is associated with the device and independent of an association with a digital document,

wherein the processor is capable of altering at least a portion of an original version of a digital document based upon the set of at least one preference to thereby produce a revised version of the digital document, and wherein the processor is capable of producing the revised version of the digital document such that the device is capable of displaying the revised version, and

wherein altering at least a portion of the original version of the digital document includes segmenting the digital document into a plurality of subdocuments, at least one of the transmitted subdocuments to the device including a link to an adjacent subdocument, the revised version of the digital document including the subdocuments.

34. (Previously Presented) A network entity according to Claim 33, wherein the network entity comprises an origin server, and wherein the processor is capable of transmitting the revised version of the digital document to the device after producing the revised version.

35. (Previously Presented) A network entity according to Claim 33, wherein the processor is capable of receiving the original version of the digital document from an origin server in response to the origin server receiving a request for the digital document to be displayed by a device, the original version of the digital document being independent of an association with a preference for altering at least a portion of the original version to thereby produce the revised version.

36. (Previously Presented) A network entity according to Claim 35, wherein the network entity comprises a proxy server, and wherein the processor is capable of transmitting the revised version of the digital document to the device after producing the revised version.

37. (Previously Presented) A network entity according to Claim 35, wherein the network entity comprises a device, and wherein the processor is capable of driving a display to present the revised version of the digital document after producing the revised version.

38. (Previously Presented) A network entity according to Claim 33, wherein the set of at least one preference is associated with the device based on a unique identifier of the device.

39. (Previously Presented) A network entity according to Claim 33, wherein the set of at least one preference is associated with a type of device and independent of an association with a digital document, and wherein the processor is capable of receiving the set of at least one

preference based on the type of device for which the revised version of the digital document is produced.

40. (Previously Presented) A network entity according to Claim 33, wherein the processor is capable of transmitting a portion of the subdocuments to the device, and retaining the remaining portion of the subdocuments, after producing the revised version.

42. (Previously Presented) A network entity according to Claim 40, wherein at least one subdocument transmitted to the device includes the link such that, upon selection of the link, the processor is capable of receiving a request for the adjacent subdocument, and transmitting the adjacent subdocument to the device.

43. (Previously Presented) A computer program product comprising at least one computer-readable storage medium having computer-readable program code portions stored therein, the computer-readable program code portions comprising:

a first executable portion for receiving a set of at least one preference for altering digital documents to be displayed by a device, wherein the set of at least one preference is associated with the device and independent of an association with a digital document;

a second executable portion for altering at least a portion of an original version of a digital document based upon the set of at least one preference to thereby produce a revised version of the digital document, wherein the second executable portion is adapted to produce the revised version of the digital document such that the device is capable of displaying the revised version, the second executable portion being adapted to alter at least a portion of the original version of the digital document including segmenting the digital document into a plurality of subdocuments, the revised version of the digital document including the subdocuments; and

a third executable portion for transmitting a portion of the subdocuments, wherein the at least one of the portion of subdocuments transmitted by the third executable portion to the device includes a link to an adjacent subdocument.

44. (Previously Presented) A computer program product according to Claim 43, wherein the computer program product is adapted for operation by an origin server, and wherein the computer program product further comprises:

a fourth executable portion for transmitting the revised version of the digital document to the device after producing the revised version.

45. (Previously Presented) A computer program product according to Claim 43, wherein the first, second and third executable portions are adapted for operation by a network entity, and wherein the computer program product further comprises:

a fourth executable portion for receiving a request for the digital document to be displayed by a device, wherein the fourth executable portion is adapted for operation by an origin server, and wherein the fourth executable portion is adapted to transmitting the original version of the digital document to the network entity, the original version of the digital document being independent of an association with a preference for altering at least a portion of the original version to thereby produce the revised version.

46. (Previously Presented) A computer program product according to Claim 45, wherein the network entity comprises a proxy server, and wherein the computer program product further comprises:

a fifth executable portion for transmitting the revised version of the digital document to the device after the second executable portion produces the revised version, the fifth executable portion being adapted for operation by the proxy server.

47. (Previously Presented) A computer program product according to Claim 45, wherein the network entity comprises a device, and wherein the computer program product further comprises:

a fifth executable portion for displaying the revised version of the digital document after the second executable portion produces the revised version, the fifth executable portion being adapted for operation by the device.

48. (Previously Presented) A computer program product according to Claim 43, wherein the set of at least one preference is associated with the device based on a unique identifier of the device.

49. (Previously Presented) A computer program product according to Claim 43, wherein the set of at least one preference is associated with a type of device and independent of an association with a digital document, and wherein the first executable portion is adapted to receive the set of at least one preference based on the type of device for which the revised version of the digital document is produced.

50. (Previously Presented) A computer program product according to Claim 43, wherein the third executable portion is adapted to transmit a portion of the subdocuments to the device, and retain the remaining portion of the subdocuments, after the second executable portion produces the revised version.

52. (Previously Presented) A computer program product according to Claim 50, wherein at least one subdocument transmitted by the third executable portion to the device includes the link such that, upon selection of the link, the third executable portion is further capable of receiving a request for the adjacent subdocument, and transmitting the adjacent subdocument to the device.

53. (Previously Presented) The method of claim 1, wherein the segmenting subdocuments comprises:

determining a maximum document size permissible by the device;

converting the digital document into a specific markup language document; and

dividing the specific markup language document into a number of segments of a predetermined length.

54. (Previously Presented) The method of claim 53, wherein the number of segments is determined by dividing a size of the digital document by the maximum document size permissible by the device.

9. ***Evidence Appendix.***

None.

10. ***Related Proceedings Appendix.***

None.

CONCLUSION

For at least the foregoing reasons, Applicants respectfully request that the rejections be reversed.

It is not believed that extensions of time or fees for net addition of claims are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 CFR § 1.136(a), and any fee required therefore (including fees for net addition of claims) is hereby authorized to be charged to Deposit Account No. 16-0605.

Respectfully submitted,

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